



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF RESEARCH AND DEVELOPMENT
ENVIRONMENTAL CRITERIA AND ASSESSMENT OFFICE
CINCINNATI, OHIO 45268

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PAE

April 2, 1990

SUBJECT: Available Toxicity Information for PAHs (C & D Recycling) (Philadelphia)

FROM: Pei-Fung Hurst *Pei-Fung Hurst*
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TO: Mike Towle
U.S. EPA
Region III

THRU: W. Bruce Peirano *W. Bruce Peirano*
Acting Chief
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This memo is in response to the request by your contractor, Eileen Mahoney of Hart Environmental Management Co., regarding toxicity values for PAHs. Outlined below is a brief summary of available information on this group of compounds.

I. RfD

A. Oral

Only 6 PAHs have interim oral RfDs. Table 1 lists the chemicals with oral RfDs along with the critical study, species, critical effect and reference dose. For the verified chemicals, the date of verification is listed; these chemicals are not currently loaded onto IRIS.

B. Inhalation

Inhalation RfDs were not found for any of the PAHs.

II. Carcinogenic Assessment

A. IRIS Status

Benzo(a)pyrene has been classified as a B2 carcinogen on IRIS, but a CRAVE-verified carcinogenic slope factor is not available because of lack of adequate data.

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B. Interim Guidance

An oral slope factor of $11.5 \text{ (mg/kg/day)}^{-1}$ and an inhalation slope factor of $6.1 \text{ (mg/kg/day)}^{-1}$, calculated for benzo(a)pyrene in the Health Effects Assessment for PAHs (EPA, 1984), can be adopted as interim numbers pending verification by the Work Group.

The classification for twelve PAHs were discussed and verified at the February 1990 CRAVE Work Group Meeting (See Table 2).

Please do not hesitate to contact me at FTS 684-7585 if I can be of further assistance.

cc: C. DeRosa (ECAO-Cin)
E. Mahoney (Hart Env. Mgmt. Co.)
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